METHOD OF MICROWAVE-ASSISTED PROTEIN ARRAY FABRICATION AND FULL AUTOMATIC PROTEIN ARRAY SYSTEM

ABSTRACT

The present invention relates to the use of microwave-assisted technology for shortening the fabrication and detection time of protein array. After printing the proteins on a surface-treated aldehyde slide by an arrayer, the proteins are rapidly fixed on the surface of the slide by heating of microwave irradiation. As for the prevention of the appearance of non-specific signal from the backgrounds, the protein array is then blocked with skim milk buffer solution by heating with microwave irradiation, and a fast detection result of the protein array with high sensitivity will be obtained. Also, the present invention of the method of microwave-assisted technology for decreasing fabrication and detection time of the protein array is used as a full automatic protein array system.